Intermional Application No
PCT/JP2005/001438

A. CLASSII	FICATION OF SUBJECT MATTER					
IPG 7	FICATION OF SUBJECT MATTER H01B1/12 H01L51/20 H01L51/	30				
1						
	o International Patent Classification (IPC) or to both national classific	cation and IPC				
	SEARCHED ocumentation searched (classification system followed by classification current followed by classification system followed by classification for the followed by classification system followed by classification system followed by classification for the followed by classification system followe	tion symbols)				
IPC 7	HO1B HO1L					
Documental	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	parched			
Electronic d	ata base consulted during the International search (name of data b	ase and, where practical, search terms used)			
EPO-In	ternal, WPI Data, CHEM ABS Data					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with Indication, where appropriate, of the re-	elevant passages	Relevant to claim No.			
X	COLLARD ET AL.: "Controlling the Macromolecular Architecture of Poly(3-alkylthiophene)s by alter Alkyl and Fluoralkyl Substituent MACROMOLECULES, vol. 33, 22 April 2000 (2000-04-3502-3504, XP002327217 whole dcoument + scheme 2	nating s"	1,2,4-18			
X Fur	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.			
° Special ca	ategories of cited documents :	"T" later document published after the into	emational filing date			
"A" docum	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or th Invention				
"E" earlier	"E" earlier document but published on or after the international filling date "X" document of particular rel evance; the claimed invention cannot be considered novel or cannot be considered to					
"L" docum which	ent which may throw doubts on priority claim(s) or i is clied to establish the publication date of another	Involve an inventive step when the do	ocument is taken alone			
"O" docum	on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an in document is combined with one or m	oventive step when the ore other such docu-			
"P" docum	means inent published prior to the international filing date but than the priority date claimed	ments, such combination being obvious in the art. "&" document member of the same patent				
Date of the	actual completion of the international search	Date of mailing of the International sea	arch report			
9	August 2005	2 3. 08. 2005				
Name and	mailing address of the ISA	Authorized officer				
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Marsitzky. D				

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category	Citator of Counterit, with including, where appropriate, of the recording passages	TOTO THE TOTO CONTINUES.
	PILSTON R L ET AL: "TOWARD HIGHLY FLUORESCENT POLYTHIOPHENES: HEAD-TO-TAIL COUPLED COPOLYMERS OF 3-(METHOXYETHOXYETHOXYMETHYL) THIOPHENE AND 3-(PERFLUOROALKYL) THIOPHENE" SYNTHETIC METALS, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 111/112, 15 May 1989 (1989-05-15), pages 433-436, XP001151608 ISSN: 0379-6779 whole document	1,2,4-18
A	EP 1 329 474 A (XEROX CORPORATION) 23 July 2003 (2003-07-23) page 1, line 6 - page 19, line 31	1-18
X	EP 1 279 689 A (MERCK PATENT GMBH)	1,2,4-18
Α	29 January 2003 (2003-01-29) page 1, line 15 - page 9, line 38	3
		·

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1
Box(III Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
' This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: .
Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
· •
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest
X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,4-18

Compound (oligomer/polymer) which can be completely conjugated or only partly conjugated comprising a) alkylated thiophene units and b) perfluorinated thiophene units which are separated by c) an odd_number of "rings" + their use in organic thin film transistors (OFET)

2. claim: 3

Purely conjugated compound (oligomer/polymer) comprising a) alkylated thiophene units and b) perfluorinated thiophene units which are separated by c) an odd number of "rings" + their use in organic thin film transistors (OFET)

Intermation on patent ramily members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1329474	Α	23-07-2003	US EP JP	2003136958 A1 1329474 A1 2003264327 A	24-07-2003 23-07-2003 19-09-2003
EP 1279689	Α	29-01-2003	EP JP US	1279689 A2 2003176338 A 2003062509 A1	29-01-2003 24-06-2003 03-04-2003

Form PCT/ISA/210 (patent family annex) (January 2004)